

WHAT IS CLAIMED IS:

1. A light diffuser having a light diffusion layer comprising:

a glass substrate consisting of a first surface and a second surface corresponding to the first surface; and

5 a diffusion particle layer including macromolecular compound and a plurality of diffusion particles dispersed therein, the diffusion particle layer is attached to either of the first surface or the second surface of the glass substrate;

the diffusion particles having a relative refractive index with respect to
10 that of the glass substrate so as to refract light an appropriated angle;

wherein light can enter either of the first surface or the second surface of the glass substrate, and passes through the diffusion particle layer to generate a diffused light.

2. The light diffuser having the light diffusion layer as defined in
15 Claim 1, wherein the glass substrate can be selected from a group consisting of flint glass, crown, phosphate, barium crown and borosilicate.

3. The light diffuser having the light diffusion layer as defined in Claim 1, wherein the diffusion particle layer is made of macromolecular compounds initially coating on the glass substrate.

20 4. The light diffuser having the light diffusion layer as defined in

Claim 1, wherein the diffusion particles have a predetermined diameter and configuration.

5 5. The light diffuser having the light diffusion layer as defined in Claim 1, wherein the diffusion particle layer consists of a single row of the diffusion particles.

6. The light diffuser having the light diffusion layer as defined in Claim 1, wherein the diffusion particles employ an electrostatic induction method that the macromolecular compound disposed on the glass substrate attracts the electrostatic charged particles.

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